

ABSTRACT

A digital protection and control device is so configured that at least parts of a digital data merging unit coupled to sensor units by a transmission medium, a protection and control unit, a communication unit for component control devices coupled to component control devices by a transmission medium, and a process bus communication unit are coupled by a parallel transmission medium, and at least a part of data exchange is based on a multimaster mode. Transmission based on the multimaster mode enables each unit to transmit/receive data independently and enables the reduction in unbalanced communication load. As a result, such a risk can be reduced that time responsiveness of operation is lowered as the entire digital protection and control device due to unbalanced concentration of data bus processing in a particular unit.